## Index of Claims

## Application/Control No.

Applicant(s)/Patent under Reexamination

10/553,637 Examiner Daniel St.Cyr OSTERWEIL ET AL.

Rejected Allowed

(Through numeral) Cancelled

Restricted

Non-Elected N Interference

Appeal Α 0 Objected

Art Unit

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|               |          | L        | L        |         | _            | J        |   | _L       |          |          |          |          |           |         | J       | L        |          |           |          |          | J          |               |         |   |               |          |         |         |
|---------------|----------|----------|----------|---------|--------------|----------|---|----------|----------|----------|----------|----------|-----------|---------|---------|----------|----------|-----------|----------|----------|------------|---------------|---------|---|---------------|----------|---------|---------|
|               |          | _        |          |         |              |          |   |          | _        | -        |          | _        |           |         | _       |          |          |           | _        | -        |            |               |         | _ | _             |          |         | _       |
| Cla           | aim      | Date     |          |         |              |          |   |          | Cla      | im       | Date     |          |           |         |         |          |          | 4         | Claim    |          |            | Date          |         |   |               |          | $\neg$  |         |
| Final         | Original | 2/26/09  |          |         |              |          |   |          |          | Final    | Original | 2/26/09  |           |         |         |          |          |           |          | Final    | Original   |               |         |   |               |          |         |         |
|               | 1        | v        | $\vdash$ | $^{+}$  | t            | Н        | П | $\neg$   | 1        |          | 51       | П        | $\top$    | $^{+}$  | $^{+}$  | т        | П        | $\neg$    | ┪        |          | 101        | $\dashv$      | +       | t | $\vdash$      |          | $\neg$  | +       |
|               | 2        |          |          | $\top$  |              | П        | П |          | 1        |          | 52       |          | $\top$    | $\top$  | T       |          | П        | $\neg$    | ヿ        |          | 102        | $\neg$        | $\top$  |   |               |          |         | $\top$  |
|               | 3        | П        |          | Т       | $\top$       | П        | П |          | 7        |          | 53       | ٧        | $\Box$    |         | Т       |          | П        | $\neg$    |          |          | 103        |               | $\neg$  |   | П             | П        |         | $\Box$  |
|               | 4        | П        |          | Т       | Т            | П        | П |          | 7        |          | 54       |          | П         | Т       | Т       | Т        | П        | $\neg$    | 7        |          | 104        | ╗             | $\top$  | Т | Г             |          |         | $\top$  |
|               | 5        | v        |          | Т       |              |          |   |          |          |          | 55       |          |           | I       | Τ       | П        |          | $\Box$    |          |          | 105        | I             | $\top$  |   |               |          |         |         |
|               | 6        | v        |          |         |              |          |   |          |          |          | 56       |          |           |         | L       |          |          |           |          |          | 106        | $\Box$        |         |   |               |          |         |         |
|               | 7        | v        | $\perp$  | $\perp$ | ┖            | ш        | Ш | _        | 4        |          | 57       | Ш        | Щ         | _       | $\perp$ | ┖        | Ш        | _         | 4        |          | 107        | 4             | $\perp$ | ┖ |               |          | _       | ш       |
|               | 8        | v        |          | $\perp$ | ┖            | Ш        | Ш | _        | _        |          | 58       | Ш        | Щ         | _       | ┸       | ┖        | Ш        | _         | _        |          | 108        | _             | $\perp$ | ╙ | $\perp$       |          | _       | ш       |
|               | 9        | ٧        |          | $\perp$ | ┸            | Ш        |   | _        | 4        |          | 59       |          | Щ         | _       | ┸       |          | Ш        | $\perp$   | 4        |          | 109        | $\dashv$      | $\perp$ | ┖ | $\perp$       | Ш        | $\perp$ | ш       |
|               | 10       |          |          | _       | _            | ш        | Ш | _        | 4        |          | 60       |          | $\perp$   | _       | _       | $\perp$  | ш        | $\perp$   | _        | _        | 110        | _             | _       |   |               | Ш        | $\perp$ | ш       |
| _             | 11       | ⊢        | $\vdash$ | $\perp$ | _            | _        | Н | -        | 4        | $\vdash$ | 61       | Н        | Н         | +       | +       | ┺        | Н        | 4         | 4        | $\vdash$ | 111        | _             | +       | ┺ | <u> </u>      | Ш        | _       | +       |
| $\vdash$      | 12       | $\vdash$ | $\vdash$ | +       | +            | Н        | Н | +        | 4        | $\vdash$ | 62<br>63 | Н        | $\vdash$  | +       | +       | +        | Н        | +         | 4        | $\vdash$ | 112        | +             | +       | ⊢ | $\vdash$      | Н        | +       | +       |
| _             |          | _        | +        | +       | +            | Н        | Н | +        | 4        | $\vdash$ |          | Н        | +         | +       | +       | +        | Н        | $\dashv$  | 4        | $\vdash$ |            | +             | +       | ⊢ | $\vdash$      |          | +       | +       |
| $\vdash$      | 14       | $\vdash$ | +        | +       | +            | Н        | Н | +        | $\dashv$ | $\vdash$ | 64<br>65 | Н        | +         | +       | +       | ⊢        | $\vdash$ | +         | $\dashv$ | $\vdash$ | 114        | +             | +       | + | $\vdash$      | Н        | +       | +       |
|               | 16       | Н        | +        | +       | +            | Н        | Н | +        | ┨        | $\vdash$ | 66       | Н        | +         | +       | +       | +        | $\vdash$ | $\dashv$  | $\dashv$ | $\vdash$ | 116        | $\rightarrow$ | +       | + | $\vdash$      | Н        | +       | +       |
| _             | 17       | $\vdash$ | +        | +       | +            | Н        | Н | +        | ┨        | -        | 67       | Н        | +         | +       | +       | +        | $\vdash$ | $\dashv$  | $\dashv$ | $\vdash$ | 117        | +             | +       | + | $\vdash$      | Н        | +       | +       |
|               | 18       | $\vdash$ | +        | +       | +            | Н        | Н | $^+$     | Η.       | -        | 68       | Н        | +         | +       | +       | +        | $\vdash$ | $\dashv$  | $\dashv$ | $\vdash$ | 118        | $\dashv$      | +       | + | $\vdash$      | Н        | $\pm$   | +       |
|               | 19       |          | $\vdash$ | +       | +            | Н        | Н | $^{-}$   | ┨        |          | 69       | Н        | +         | +       | +       | +        | $\vdash$ | $\dashv$  | _        | $\vdash$ | 119        | $\dashv$      | +       |   | -             | Н        | $^{+}$  | +       |
|               | 20       |          | $\vdash$ | +       | $\vdash$     | Н        | Н | $^{+}$   | ┥.       |          | 70       | Н        | +         | $^{+}$  | +       | $\vdash$ | $\vdash$ | $\dashv$  | ┪        |          | 120        | $\dashv$      | +       | t | $\vdash$      | Н        | $^{+}$  | +       |
|               | 21       | т        | $\vdash$ | +       | $^{+}$       | Н        | Н | $\neg$   | ┪.       |          | 71       | Н        | $^{+}$    | $^{+}$  | +       | -        | $\vdash$ | $\dashv$  | _        |          | 121        | $\neg$        | +       | 1 | -             | Н        | $^{+}$  | +       |
|               | 22       |          | -        | $^{+}$  | $^{+}$       | т        | П | $\neg$   | 1        |          | 72       | П        | $\neg$    | $\top$  | $^{+}$  | -        | П        | $\neg$    | _        |          | 122        |               | $\pm$   |   | $\overline{}$ | П        | $\neg$  | $\top$  |
|               | 23       | Т        |          | $^{+}$  | $^{\dagger}$ | т        | П | $\neg$   | 1        |          | 73       | П        | $\top$    | $^{+}$  | $^{+}$  | Т        | П        | $\neg$    | ┪        |          | 123        | 寸             | +       | T | $\overline{}$ |          | $\neg$  | $\top$  |
|               | 24       |          |          | Т       | Т            | П        | П | _        | 1        |          | 74       |          | $\top$    | T       | Т       | Т        | П        | $\neg$    | ╗        |          | 124        | 寸             | $\top$  | Т |               |          | $\neg$  | $\top$  |
|               | 25       | П        |          | т       | Т            | П        | П |          | 7        |          | 75       | ٧        | $\Box$    | Т       | Т       | Т        | П        | $\neg$    | ╗        |          | 125        | T             | $\top$  | Т | П             |          | $\neg$  | $\top$  |
|               | 26       |          |          | Т       |              |          |   |          | 7        |          | 76       | ٧        | П         | Т       | Т       | П        | П        | $\Box$    |          |          | 126        | T             | $\top$  |   |               |          |         | $\Box$  |
|               | 27       |          |          |         |              |          |   |          |          |          | 77       | ٧        |           |         |         |          |          |           |          |          | 127        |               | $\top$  |   |               |          |         |         |
|               | 28       |          |          |         |              |          |   |          |          |          | 78       | ^        |           |         |         |          |          |           |          |          | 128        |               | T       |   |               |          |         |         |
|               | 29       |          |          | $\perp$ |              | Ш        |   | _        | ┙        |          | 79       | ٧        | $\perp$   | $\perp$ | $\perp$ | ┖        | Ш        | $\perp$   | _        |          | 129        | $\perp$       |         | ┖ |               |          |         | ш       |
|               | 30       |          |          |         | _            |          |   | _        | 4        |          | 80       | ٧        |           | _       | _       |          | Ш        |           | 4        |          | 130        | _             | $\perp$ |   |               |          | _       | ш       |
|               | 31       |          |          | $\perp$ | _            | ш        | Ш | _        | 4        | $\vdash$ | 81       | Ш        | $\perp$   | +       | +       | _        | Н        | _         | 4        |          | 131        | _             | $\perp$ | ┺ | _             |          | _       | $\perp$ |
| _             | 32       | ⊢        | -        | +       | ⊢            | Н        | Н | +        | 4        | $\vdash$ | 82       | Н        | +         | +       | +       | ⊢        | Н        | -         | 4        | -        | 132        | +             | +       | ⊢ | ⊢             | Н        | +       | +       |
| <u> </u>      | 33       | $\vdash$ | $\vdash$ | +       | +            | $\vdash$ | Н | +        | 4        | $\vdash$ | 83       | $\vdash$ | +         | +       | +       | +        | $\vdash$ | $\dashv$  | $\dashv$ | $\vdash$ | 133        | +             | +       | + | $\vdash$      | Н        | +       | +       |
| _             | 34       | $\vdash$ | +        | +       | +            | $\vdash$ | Н | +        | +        | $\vdash$ | 84<br>85 | $\vdash$ | +         | +       | +       | +        | $\vdash$ | +         | $\dashv$ | $\vdash$ | 134<br>135 | +             | +       | + | $\vdash$      | $\vdash$ | +       | +       |
| _             | 36       | $\vdash$ | $\vdash$ | +       | +            | $\vdash$ | Н | +        | +        | $\vdash$ | 86       | $\vdash$ | +         | +       | +       | +        | $\vdash$ | $\dashv$  | $\dashv$ | $\vdash$ | 135        | $\dashv$      | +       | + | $\vdash$      |          | +       | +       |
| _             | 37       | $\vdash$ | $\vdash$ | +       | +            | Н        | Н | +        | -        | $\vdash$ | 87       | Н        | +         | -       | +       | +        | Н        | +         | $\dashv$ | $\vdash$ | 137        | $\dashv$      | +       | + | $\vdash$      |          | +       | +       |
|               | 38       | -        | -        | +       | +            | Н        | Н | +        | -        |          | 88       |          | 1         | +       | +       | 1        | H        |           | -        |          | 138        | $\dashv$      | +       | + |               |          | +       | +       |
|               | 39       | Н        | $\vdash$ | +       | +            | Н        | Н | +        | -i       |          | 89       | Н        | +         | +       | +       | +        | Н        | $\dashv$  | -1       | _        | 139        | +             | +       | + | -             | Н        | +       | +-1     |
| -             | 40       | Н        | H        | +       | $^{-}$       | т        | Н | $\dashv$ | -        |          | 90       | Н        | $\vdash$  | +       | +       | t        | Н        | +         | -1       | $\vdash$ | 140        | $\dashv$      | +       | T |               | Н        | +       | +       |
| 1             | 41       | $\vdash$ | $\vdash$ | $^{+}$  | t            | t        | Н | $\neg$   | -[       |          | 91       | Н        | $\forall$ | $^{+}$  | +       | t        | H        | $\dashv$  | -        |          | 141        | 7             | +       | t |               | Н        | $^{+}$  | $\top$  |
|               | 42       | v        | $\vdash$ | $^{+}$  | T            | т        | П | $^{-1}$  | -        |          | 92       | П        | $\vdash$  | $^{+}$  | $^{+}$  | t        | П        | $\dashv$  | -1       |          | 142        | $\dashv$      | +       | t |               | П        | $\top$  | +       |
| $\overline{}$ | 43       | v        |          | T       | T            |          | П | $\neg$   | 1        |          | 93       | П        | $\forall$ | $\top$  | T       | T        | П        | ┪         | -1       |          | 143        | 7             | 十       | T |               | П        | T       | $\top$  |
| 1             | 44       | v        |          | T       | Т            |          | П |          | 1        |          | 94       | П        | $\top$    | $\top$  | $\top$  | Т        | П        | $\forall$ | -1       |          | 144        | $\neg$        | $\top$  | Т |               |          | $\top$  | $\top$  |
|               | 45       | v        |          |         |              |          | П |          | 1        |          | 95       |          | $\neg$    | $\top$  |         |          | П        | $\neg$    | T)       |          | 145        | 1             | $\top$  |   |               |          |         | $\top$  |
|               | 46       | v        |          | Т       | Т            | Г        |   |          | 1        |          | 96       | П        |           | $\top$  |         | Т        | П        | $\neg$    | 7        |          | 146        | $\neg$        | $\top$  | Т |               |          |         | $\Box$  |
|               | 47       |          |          | I       | I            |          |   |          |          |          | 97       |          |           | I       | I       | Γ        | □        |           |          |          | 147        | J             | $\top$  | L |               |          |         | $\Box$  |
|               | 40       |          |          |         | Г            |          |   |          | 1        |          | 90       |          |           | Τ       | Т       |          | П        |           |          |          | 140        | T             |         |   |               |          |         |         |
|               | 49       |          |          | Г       |              |          |   |          |          |          | 99       |          | I         | $\perp$ | I       |          | П        | J         | _]       |          | 149        | J             | $\perp$ |   |               |          |         | $\Box$  |
|               | 50       |          |          |         | Г            |          |   | $\perp$  | 1        |          | 100      |          | $\Box$    | T       | Г       | Г        |          | T         |          |          | 150        | I             | T       | Г | Ι_            |          | $\perp$ |         |